

Computer Hardware and Software:

The ConnDOT Project Engineer will provide the Contractor with a copy of the current PC specifications, approved printer list and data wiring schematic as soon as possible after the contract is awarded.

Before ordering the computer hardware and software, the Contractor shall submit a copy of their proposed PC specifications and the type of printer to the ConnDOT Project Engineer for review by the ConnDOT Data Center. If the specification meets or exceeds the minimum specifications listed below, then the Contractor will be notified that the order may be placed.

Before any equipment is delivered to the Data Center, arrangements must be made a minimum of 24 hours in advance by contacting 860-594-3500. All software, hardware and licenses listed below shall be clearly labeled, specifying the (1) Project No., (2) Contractor Name, (3) Project Engineer's Name and (4) Project Engineer's Phone No., and shall be delivered to the ConnDOT Data Center, 2710 Berlin Turnpike, Newington, CT, where it will be configured and prepared for field installation. Installation will then be coordinated with ConnDOT field personnel and the computer system specified will be stationed in the Department's project field office.

The computer system furnished shall have all software and hardware necessary for the complete installation of the latest versions of the software listed, and therefore supplements the minimum specifications below. The Engineer reserves the right to expand or relax the specification to adapt to the software and hardware limitations and availability, the compatibility with current agency systems, and to provide the Department with a computer system that can handle the needs of the project. **There will not be any price adjustment due to the change in the minimum system requirements.**

The Contractor shall provide the Engineer with a licensed copy registered in the Department's name of the latest versions of the software listed and maintain customer support services offered by each software producer for the duration of the Contract. The Contractor shall deliver to the Engineer all supporting documentation for the software and hardware including any instructions or manuals. The Contractor shall provide original backup media for the software.

The Contractor shall provide the computer system with all required supplies, maintenance and repairs (including labor and parts) throughout the Contract life.

Once the Contract has been completed, the computer will remain the property of the Contractor. Prior to the return of any computer(s) to the Contractor, field personnel will coordinate with the Data Center personnel for the removal of Department owned equipment, software, data, and associated equipment.

A) Computer – Minimum Specification:

- Processor – Intel® Core i5 Processor (3.20 GHz, 1600 MHz FSB 6MB Cache)
- Memory – 8 GB DDR3 1600MHz
- Monitor – Dual (2) 24.0 inch LCD color monitor
- Graphics – Intel Integrated Graphics
- Hard Drive – 500 GB 7200 RPM SATA hard drive (Western Digital, IBM or Seagate) Optical Drive – CD-RW/DVD-RW
- Multi-Card Reader – Must include SD
- Multimedia Package – Integrated sound and speakers
- Case – Small Form or Mid Tower, capable of vertical or horizontal orientation
- Integrated Network Adapter
- Keyboard – 104+ Keyboard
- Mouse – Optical 2-button mouse with scroll wheel
- Operating System – Windows 7 Professional 64-bit SP1
- Application Software – MS Office 2010 Professional Edition (or newer)
- Additional Software (Latest Releases, including subscription services for the life of the Contract –
 - Symantec Endpoint Protection
 - CD/DVD burning software (ROXIO or NERO)
 - Blue-Beam **Revu eXtreme** (*Must be original purchased Licensed Media CD/DVD or authentic digital down load certificate*).
 - Adobe Acrobat Professional may be specified as an alternative to Blue-beam Revu eXtreme, upon request by administrating District (*Must be original purchased Licensed Media CD/DVD or authentic digital down load certificate*)

Resource or Driver CD/DVD – CD/DVD with all drivers and resource information so the computer can be restored to original prior to shipment back to the contractor

Uninterrupted power supply – APC Back-UPS 500VA

Note A1: All hardware components must be installed before delivery. All software documentation and CD-ROMs/DVD for Microsoft Windows 7 Professional, Microsoft Office 2010 Professional Edition, and other software required software must be provided. Computer Brands are limited to Dell (preferred) and HP (acceptable) brands only. No other brands will be accepted. The CTDOT Project Engineer will provide the Contractor with a copy of the current PC specifications and approved printer list as soon as possible after the contract is awarded.

B) Laptop Computer – Minimum Specification:

- Only Dell or HP brand laptop computers will be accepted
- Processor – Intel® Core i5 Processor (2.50 GHz, 1333 MHz FSB, 3M Cache) Memory – 4 GB DIMM DDR3 1333MHz
- Screen – 14.0 inch LED anti-glare
- Graphics – Intel Graphics Media Accelerator 3000 or equivalent
- Hard Drive – 250 GB 7200 rpm hard drive (Western Digital, IBM or Seagate)
- USB ports – Four (4)
- Optical Drive – CD-RW/DVD-RW Combo
- Multimedia Package – Integrated microphone and speakers
- Integrated Network Adapter – comparable to 3COM PCI 10/100/1000 twisted pair Ethernet Wireless Network Adapter – Intel® Centrino a/b/g/n
- Card Reader – multi-card reader including SD
- Battery – Two (2) 9-cell batteries: 1-primary and 1-spare
- Power adapters – One (1) AC wall adapter and One (1) 12 Volt DC Auto adapter Mouse – Cordless laser 2-button mouse with scroll wheel
- Operating System – Windows 7 Professional 64-Bit Service Pack 1 Application Software – MS Office 2010 Professional Edition

Additional Software (Latest Releases, including subscription services for the life of the Contract –

- a. Norton Anti-Virus,
- b. Adobe Acrobat Professional - Digital Download is not acceptable. Must be original purchased Licensed Media CD/DVD.

Resource or Driver CD/DVD – CD/DVD with all drivers and resource information so that computer can be restored to original prior to shipment back to the contractor

Carrying Case – Carrying case sized to carry laptop and accessories.

Note B1: All hardware components must be installed before delivery. All software documentation and CD-ROMs/DVD for Microsoft Windows 7 Professional, Microsoft Office 2010 Professional Edition, and other software required software must be provided. Computer Brands are limited to Dell (preferred) and HP (acceptable) brands only. No other brands will be accepted. The ConnDOT Project Engineer will provide the Contractor with a copy of the current PC specifications and approved printer list as soon as possible after the contract is awarded.

C) Laser Printer – Minimum Specification:

Print speed – 20 ppm
Resolution – 1,200 x 1,200 dpi
Paper size – Up to 216 mm x 355 mm (8.5 in x 14 in)
RAM – 16 MB
Print Drivers – Must support HP PCL6 and HP PCL5e
Printer cable – 1.8 m (6 ft)

Note C1: Laser printer brands are limited to Hewlett-Packard and Savin brands only. The ConnDOT Project Engineer will provide the Contractor with a copy of the current PC specifications and approved printer list as soon as possible after the contract is awarded.

Note C2: For ‘Small’, ‘Medium’ and ‘Large’ Field Officers, it is acceptable to substitute a multi-function all-in-one printer/copier/scanner/fax machine listed on the approved printer list in place of the required laser printer and fax machine.

Note C3: For Type ‘Extra-Large’ Field Offices it is acceptable to substitute (1) a high-speed multi-function all-in-one printer/copier/scanner/fax machines listed on the approved printer list in place of one required laser printer and fax machine, and (2) a multi-function all-in-one printer/copier/scanner/fax machine listed on the approved printer list in place of the second required laser printer and fax machine. Only one of these devices is required to be set-up to function as the one required fax machine.

D) Scanner – Minimum Specification:

Refer to C) Laser Printer - Minimum Specification Note C2 and C3.

E) Digital Camera – Minimum Specification:

Optical – 5 mega pixel, with 3x optical zoom
Memory – 4 GB
Connectivity – USB cable or memory card reader
Software – Must be compatible with Windows 7 Professional
Power – Rechargeable battery and charge

F) Communications:

The Contractor shall provide rugged cell phones with unlimited nation-wide calling plan that operates on the Verizon, ATT or Sprint networks. The phones should be capable of sending and receiving text messaging and shall also include voice mail. Additional features beyond those described shall be at no additional cost to the Department. Accessories for each cell phone shall include holster, AC wall charger, DC auto charger, and extended life battery.

The Contractor is responsible for service and repairs to all computer and communications hardware. All repairs must be performed with-in 48 hours. If the repairs require more than a 48 hours then a replacement must be provided. All supplies, paper and maintenance for the computers, laptops, printers, copiers, and fax machines shall be provided by the Contractor.

Current Approved Printers

The following list of printers includes the only printers that will be **approved** for use in the Field Offices, the Terminal Servers with SiteManager system. If you currently have a construction project that is scheduled to start please ensure that the contractor only supplies one of these printers. No other printers will be approved or supported for new construction projects.

NOTE: Network interface requirements for all printing/scanning/copying devices:

- a. All printers/multifunction devices **shall be Network ready** (MIN 10/100 RJ45)
- b. Network/OS – Windows XP/Windows 7/Server 2008R2
- c. Network Protocols - TCP/IP (IPv4, IPv6)
- d. All printers/multifunction devices shall have a built in **display window**.
- e. Wireless/ePrinting are **not** allowed **nor** supported.

HP LASER JET ACCEPTABLE MODELS;

- HP LaserJet Pro series
- HP LaserJet Professional series
- HP LaserJet Enterprise series

With the **exception** of the following models:

- *No HP Laser Pro 1.... Series (Not compatible w/ our network)*
- *No HP Laser Jet 1.... Series (Not compatible w/ our network)*
- *No HP Laser Jet P2035 (Not compatible w/ our network)*
- *No HP Laser Jet P2015 (Not compatible w/ our network)*
- *No HP Laser Jet Color 2550N (Not compatible w/ our network)*
- *No HP Laser Jet P1.... Series (Not compatible w/ our network)*
- *No HP laser Jet CM.... Series (Not compatible w/ our network)*
- *No HP laser Jet CP10... Series (Not compatible w/ our network)*
- *No HP laser Jet MFP Series (Not compatible w/ our network)*
- *No HP Multifunction Series (Not compatible w/ our network)*

SAVIN MULTIFUNCTION printer/copy/fax/scanner models;

NB: The only supported scanning method is via a Savin Multifunction

- SAVIN B&W Multifunction 9.... series
- SAVIN B&W Multifunction MP.... series
- SAVIN Color Multifunction C... series
- SAVIN Color Multifunction MP.... series